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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,492	07/25/2001	Jonathan E. Harper	22130-05280	6717

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EXAMINER	
HO, ANDY	

ART UNIT	PAPER NUMBER
2194	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/915,492	HARPER ET AL.	
	Examiner	Art Unit	
	Andy Ho	2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10 June 2005*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-9 and 11* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-9 and 11* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is in response to the amendment filed 6/10/2005.

2. Claims 1-9 and 11 have been examined and are pending in the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 9 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Yee U.S Patent No. 6,738,975.

As to claim 9, Yee teaches a method for routing messages (store and forward massaging system, line 22 column 14) from an application (software applications, line 53 column 13) in an integrated framework (integrating enterprise applications, lines 64-65 column 10), the framework comprising a centralized database (a database storage system, line 13 column 12;...the repository service 140 generally comprises a relational database, which contains all of the specifications for system 100, meta-data, and message broker service

rules, and an interface to that relational database..., lines 55-58 column 15;...the repository services 140 stores configurations for all configured services and integration flow objects. Monitor services store system runtime data, including system logs and statistics information..., lines 43-46 column 24) and a plurality of Message-oriented-Middleware modules (plurality of intelligent agent adapters 200, lines 20-21 column 16; an enterprise messaging system that passes messages between computer applications, lines 11-13 column 12), at least one MOM module coupled to one of the plurality of applications and to the database (Fig. 4a) and including an application adapter and a message adapter (...a typical intelligent agent-adapter 200 according to the present invention includes an agent component 210 and an adapter component 220. On one side of this architecture, the agent 210 conforms to a specified event and messaging model of the system 100. Adapter 220, on the other side of this agent-adapter architecture, uses a native application programming interface 310 of a particular application resource 300, or other suitably published interface mechanism. Together, agent 210 and adapter 220 mediate differences in interface protocols and data structures to provide a uniform, normalized view of the business events that they publish and consume..., lines 54-65 column 16), the method comprising:

processing, by at least one MOM module, of the messages associated with the one of the plurality of applications to which the MOM module is coupled (...a plurality of agent-adapters further coupled to the enterprise messaging system with each agent-adapters coupled to a respective one of the computer

applications to pass messages between the enterprise messaging system and the respective computer application..., lines 20-25 column 12); and

controlling, in accordance with the centralized database, the distributed processing of the messages by the plurality of the MOM modules (...the advantage of this agent-adapters architecture is its ability to host complex business logic in order to maintain state and negotiate transactions with the application resources..., lines 39-53 column 16);

wherein the processing comprising:

sending a message from the application adapter to the message adapter, the message including a message identification and metadata (...A source adapter 622 extracts the data from a source enterprise application 510, constructs system messages from that data, and sends those system messages to other integration objects 620..., lines 5-8 column 18);

responsive to receiving the message sent by the application adapter, querying the database with the message identification and the metadata (...A target adapter 623 receives system messages from other integration objects 620, creates application data from those system messages..., lines 8-11 column 18); and

sending, by the message adapter to a message bus, the message with the queue manager and the queue name, wherein the queue manager and the queue name are obtained from the database (...propagates that data to a target enterprise application 520..., lines 12-13 column 18).

As to claim 11, Yee further teaches receiving, by the database, a query from one of the plurality of MOM modules, the query including message identification and metadata (...The adapter bridge is within the method that the adapter 220, 22, 224 must query the agent 210 to determine what document definitions are to be processed and the type of processing provided for each document..., lines 20-31 column 29); and

returning to the one of the plurality of MOM modules data including a queue manager and a queue name, the queue name identifying the queue to which the message is sent (lines 32-41 column 29).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yee.

As to claim 1, Yee teaches a middleware system (Fig. 1a) for configuring the integration of a plurality of applications (integrating enterprise applications, lines 64-65 column 10), comprising:

a database storing data regarding the plurality of applications (a database storage system, line 13 column 12;...the repository service 140 generally

comprises a relational database, which contains all of the specifications for system 100, meta-data, and message broker service rules, and an interface to that relational database..., lines 55-58 column 15;...the repository services 140 stores configurations for all configured services and integration flow objects. Monitor services store system runtime data, including system logs and statistics information..., lines 43-46 column 24); and

a Message-oriented-Middleware module (intelligent agent adapter 200, lines 20-21 column 16; an enterprise messaging system that passes messages between computer applications, lines 11-13 column 12) communicatively coupled to one of the plurality of applications and to the database (Fig. 4a), comprising:

a first layer specific to the one of the plurality of applications to which the MOM module is coupled and a second layer, communicatively coupled to the first layer, for communicating with the database (...a typical intelligent agent-adapter 200 according to the present invention includes an agent component 210 and an adapter component 220. On one side of this architecture, the agent 210 conforms to a specified event and messaging model of the system 100. Adapter 220, on the other side of this agent-adapter architecture, uses a native application programming interface 310 of a particular application resource 300, or other suitably published interface mechanism. Together, agent 210 and adapter 220 mediate differences in interface protocols and data structures to provide a uniform, normalized view of the business events that they publish and consume..., lines 54-65 column 16);

wherein processing of said MOM module comprises:

sending a message from the first layer to the second layer, the message including a message identification and metadata (...A source adapter 622 extracts the data from a source enterprise application 510, constructs system messages from that data, and sends those system messages to other integration objects 620..., lines 5-8 column 18);

responsive to receiving the message sent by the first layer, querying the database with the message identification and the metadata (...A target adapter 623 receives system messages from other integration objects 620, creates application data from those system messages..., lines 8-11 column 18); and

sending, by the second layer to a message bus, the message with the queue manager and the queue name, wherein the queue manager and the queue name are obtained from the database (...propagates that data to a target enterprise application 520..., lines 12-13 column 18).

Yee does not explicitly teach the data being stored in accordance with a data model. However, Yee teaches (lines 2-25 column 12) the data are stored in the database according to rules set by the database. Therefore one of ordinary skill in the art would conclude that the data has been stored according to a data model set by these specific rules of the database.

As to claim 2, Yee as modified further teaches a partition data entity which corresponds to an eclient (client at each of the stations 20, 30, 40 and 50, Fig. 1a); a metadata data entity which is used to uniquely identify the eclient (user IDs, line 40 column 20); an application data entity which defines the plurality of applications (applications running at the stations 20, 30, 40 and 50,

Fig. 1a); a message data entity which defines messages which flow through the system (messages exchanging between the components, lines 9-25 column 12); and a host data entity which defines servers in the system (stations 20, 30, 40 and 50, Fig. 1a).

As to claim 3, Yee as modified further teaches an app instance data entity which identifies the servers on which each of the plurality of applications is located (stations 20, 30, 40, 50 and plurality of applications running within them, Fig. 1a); an app message data entity which identifies the messages sent to and received by each of the plurality of applications (messages exchanging between the applications, lines 9-25 column 12); and an app partition data entity which associates the plurality of applications with the eclients (data within the exchanging massages, lines 48-61 column 18).

As to claim 4, Yee as modified further teaches a queue data entity defining a repository of messages sent and received by the plurality of applications and a queue manager data entity for allowing a queue to run on a server (message queuing, lines 28-29 column 4).

As to claim 5, Yee as modified further teaches a new application can be integrated by adding it to the application data entity, wherein the addition of the new application does not interrupt the performance of the system (new subscribing applications can be added without any changes to the publishing application, lines 24-26 column 4; the system can be extensible, line 66 column 16 to line 6 column 17).

As to claim 6, Yee as modified further teaches a new message can be routed by adding it to the message data entity, wherein the addition of the new message does not interrupt the performance of the system (...the need to address messages to individual subscribing applications is avoided. Additionally, new subscribing applications can be added without any changes to the publishing application..., lines 22-26 column 4; the system can be extensible, line 66 column 16 to line 6 column 17).

As to claim 7, it is a system claim of claims 1 and 5. Therefore, it is rejected for the same reasons as claims 1 and 5 above.

As to claim 8, it is a system claim of claim 6. Therefore, it is rejected for the same reasons as claim 6 above.

Response to Arguments

5. Applicant's arguments filed 6/10/2005 have been fully considered but they are not persuasive.

Applicant argued that Yee reference does not anticipate the invention of claim 9 (Remarks, second complete paragraph page 4). In response, the applicant did not present any clear argument why Yee reference does not anticipate the invention of claim 9. If the applicant intended to indicate that the rejection is inconsistent (line 13 page 3 continue to line 6 page 4), the claim rejection disclosed above clearly shows consistent. The source adapter 622 (Fig. 5), also as the adapter 220 of Fig. 4a, anticipates the application adapter as claimed. However, integration objects are not used to anticipate the message

adapter. The portion: "...A source adapter 622 extracts the data from a source enterprise application 510, constructs system messages from that data, and sends those system messages to other integration objects..." is disclosed simply to indicate that the source adapter constructs the message and sends it out. The reference meets the limitation as claimed.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Ho whose telephone number is (571) 272-3762. A voice mail service is also available for this number. The examiner can normally be reached on Monday – Friday, 8:30 am – 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIM) system. Status information for published applications may be obtained from either Private PAIR or' Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Any response to this action should be mailed to:

Commissioner for Patents

P.O Box 1450

Alexandria, VA 22313-1450

Or fax to:

- AFTER-FINAL faxes must be signed and sent to (571) 273 - 8300.
- OFFICAL faxes must be signed and sent to (571) 273 - 8300.
- NON OFFICAL faxes should not be signed, please send to (571) 273 – 3762

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